



## SMART

- DRIcore® promotes good indoor air quality by allowing your concrete to breathe which in turn reduces the potential for mold and mildew.
- DRIcore® dramatically improves the quality of your living environment through cold and dampness protection.
- DRIcore® keeps your family warm and dry, while protecting furniture, flooring and electronics from basement moisture.

## EASY

- DRIcore® panels provide an easy ready-to-use wood subfloor to add your favorite finished floor.
- A typical 500 square foot room installs in an afternoon so you can spend more time with your family.
- DRIcore® Subfloor panels are the fastest, easiest way to add additional value to your largest financial investment.



### How many DRIcore® panels and leveling kits do I need?

Use this simple formula to estimate the number of panels and leveling kits required for your project.

$$\text{Room square footage} \div 3.3 = \text{Number of panels required}$$

Typically one leveling kit is used for every 60 panels.

ROOM SIZE	AREA (SQ. FT.)	# OF PANELS REQUIRED	LEVELING KITS
10' X 10'	100	31	1
14' X 16'	224	68	2
16' X 20'	320	97	2
20' X 24'	480	146	3



### 25 YEARS OF SOLID PROTECTION

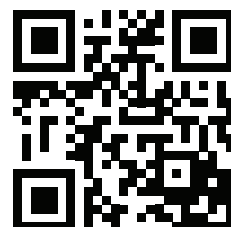
A comfortable subfloor that also provides peace of mind for many years to come.

For complete warranty details visit [www.dricore.com](http://www.dricore.com)



The Foundation for Better Living

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Canada Patent 2315462, United States Patent 6918215, Europe Patent 13099761, Australia Patent 2001276229, Hong Kong Patent HK1057587

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## TOUGH ON MOISTURE SOFT ON FEET

DRIcore® SUBFLOOR IS A SIMPLE SOLUTION TO HELP YOU CREATE A WARM, DRY, COMFORTABLE BASEMENT.



Install 500 sq ft.  
in an Afternoon!

[www.dricore.com](http://www.dricore.com)



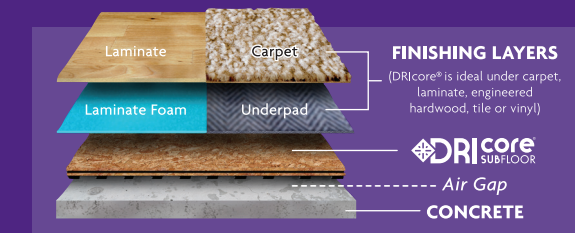
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### WHY DRIcore® SUBFLOOR?

DRIcore® is the first and most important step towards creating a new living space as warm and comfortable as any other space in your home. DRIcore® is the one-step engineered subfloor solution that is specifically designed for basements. The raised moisture barrier covers cold, damp concrete to protect, insulate and cushion your finished floors.

#### How the DRIcore® Subfloor technology works

Concrete continually releases moisture. DRIcore® Subfloor panels have been designed with air gap technology to keep basement floors dry, comfortable and cozy throughout the entire year. The air gap encourages constant air flow and evaporation/reabsorption of surface moisture emitted from your basement concrete floor.



#### Help create the best living environment possible for your family

You will be warm and dry in your new basement space with finished floors that are up to 3.2°C (6°F) warmer. A DRIcore® Subfloor helps to create a **healthy environment** for you and your family by limiting moisture that can lead to mold.

DRIcore® Subfloor panels are strong enough to stand up to heavy home furnishings, like home gym equipment, pianos, pool tables, etc. **Add your favorite finished floor – think engineered hardwood, laminate, carpet, vinyl or ceramic tile.**

Another option is to leave the DRIcore® as is. Thousands of homeowners have chosen to simply apply a few coats of polyurethane to create a great storage area or place for the kids to play!

**With a DRIcore® Subfloor you can have a strong, clean and stable subfloor that you can count on.**





## IMPORTANT HEALTH PROTECTION INFORMATION

### PERSONAL PROTECTIVE EQUIPMENT

Wear goggles or safety glasses, work gloves and an approved dust mask when cutting panels. Use an approved respirator in dusty or enclosed spaces.

### VENTILATE YOUR WORK SPACE

Accumulated wood dust can contaminate your home and be a food source for mold. To prevent in-home dust concentrations, clean up dust and cut panels outside or in a well-ventilated garage. For the DRlcore® Material Safety Data Sheet see the Healthy Home section at [www.dricore.com](http://www.dricore.com) or call DRlcore® customer service.

### TOOLS REQUIRED

- Pencil
- Level
- Pull bar
- Tape measure
- Wood tapping block
- Large carpenter's square
- Circular, jig or hand saw
- Rubber mallet or hammer

### PLAN YOUR DRlcore® SUBFLOOR

#### EXPANSION GAP

To allow for airflow and some expansion and contraction, it is recommended that panels have ¼" space from all perimeter walls and room obstacles, such as support posts and stairs. (See **1** in Figure 1). A lumber department will have ¼" strapping off cut stock or other inexpensive ¼" dimensional lumber for use as spacer material.

#### FASTENING PANELS TO CONCRETE

DRlcore® is installed as a modular floating floor normally requiring no fastening of the tongue and groove seams. However, in some instances, such as installing walls on top of DRlcore® or the stretching of wall-to-wall carpets, we recommend fastening the panels to the concrete surface.

#### ROOM VENTILATION

Maintaining a consistent temperature of approximately 21 °C/70 °F and a relative humidity of 30% to 50% in the room where DRlcore® will be installed are a few key steps that will help ensure a reliable finished flooring installation. During times of high humidity, run a dehumidifier appropriate to the room(s) size. Leave a clearance between trimwork and finished floor for an unobstructed perimeter edge air space.

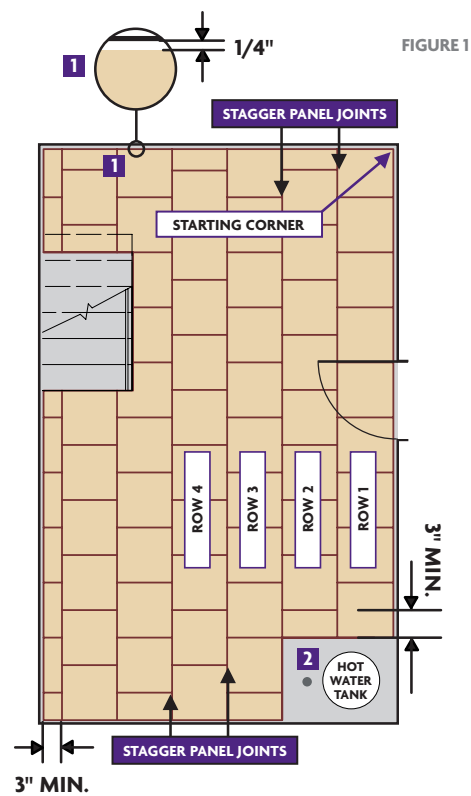
#### FLOOR DRAINS

Access to functioning floor drains/clean-outs should be maintained and not restricted. (See **2** in Figure 1). When installing DRlcore® over a drain/clean-out, make sure to create an easy to lift access opening through the finished floor. Check with your local building code authority for recommendations prior to installation.

## HOW MANY PANELS ARE REQUIRED?

Refer to back page to find out how many DRlcore® panels and leveling kits are required for your project.

## SAMPLE FLOOR PLAN



**1** ¼" space from all perimeter walls and room obstacles

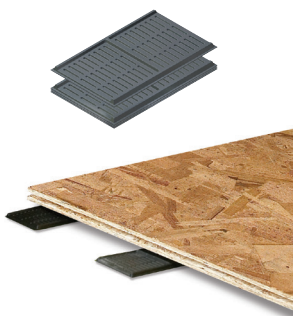
**2** Floor drain

## CONCRETE FLOOR PREPARATION

1. Sweep, vacuum and remove any debris, dirt, bumps or ridges on the concrete surface that may interfere with the seating of DRlcore® panels. A perfectly clean concrete floor is mandatory for a successful installation.
2. Any dips or low spots in the concrete surface greater than ¼" should be troweled level with a Portland cement compound or leveled with a self-leveling compound to ensure a successful installation.
3. Instances where the concrete has an existing subfloor and/or a floor covering that may trap, block or absorb moisture, we recommend it be removed before installing DRlcore® panels. Check with DRlcore® customer service for advice on removing existing flooring.

### DRlcore® LEVELING KITS

The leveling shims have been designed to slide under DRlcore® panels, to adjust for uneven areas on your concrete floors that are less than ¼". Leveling squares can be installed between two DRlcore® panels and, if necessary can be cut in half to fit.



## BEGINNING THE INSTALLATION

1. Measure the length and width of the room from a selected starting corner to ensure the last panel in each row measures greater than 3". Trim the side of the first panel or the tops of the starting row, if necessary, to account for the row end pieces. Or, loosely lay the panels down to dry-fit a test row.
2. Check starting corner for square-ness. If the starting corner is greater than a 90° angle, then the wall edge of your first row of panels will need to be cut to maintain a ¼" gap along the wall.
3. In the selected starting corner, lay the first panel with the tongue side flat against the ¼" spacer material.
4. Slide the next panel against the starting panel by press-fitting the tongue of the second panel into the groove of the first panel. Use a tapping block and hammer to ensure the panels fit snugly. Repeat until each row is complete.
5. Cut the last panel of each row to fit into place allowing for the ¼". Use a pull bar to pull the last panel into place.
6. Check each completed row for leveling and use leveling squares as required. Stagger panel seams of alternating rows by using off-cuts from a previous row as the starting panel. (See Figure 1).
7. Row #3 looks just like Row #1. Starting Row #3 with a full-size panel will create the natural seam offset. Row #4 would be staggered again as in Row #2.
8. The first three rows are the most critical to a successful DRlcore® Subfloor. To prevent any seam separation, take your time and install tightly. Working with more than two rows at a time makes leveling and moving panels more difficult.
9. Continue the floor installation. Work from one side of the room to the other, one row at a time pressing panels together to ensure a snug fit.
10. When you reach the last row and the last panel, it may become necessary to cut the panel(s) to fit. Measure for fit, allowing for the additional ¼" expansion space from the wall. Cut and press into place with a pull bar.
11. When all panels are in place and the finished floor is installed, remove the spacers around the perimeter of the room.



## HAVE MORE QUESTIONS?

Contact DRlcore® customer service at

**1-866-767-6374**

(9am-5pm ET - Monday to Friday)

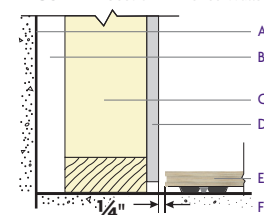
or visit

**[www.dricore.com](http://www.dricore.com)**

## INSTALLATION OF STUD WALLS

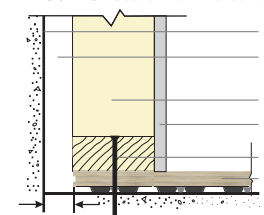
DRlcore® panels can be installed where there is an existing wall frame or a concrete foundation wall. Where only a concrete foundation exists, it is best to install wall framing directly on top of DRlcore® panels to elevate the floor and wall framing away from direct contact of potentially damp concrete. Whether framing currently exists or will be installed on top of DRlcore® panels, be sure to use the temporary ¼" spacer between DRlcore® panels and the existing wall structure to allow for expansion and air circulation.

FIGURE 2 - Section - Finished Walls



A - Concrete foundation wall  
B - 1" air space  
C - Existing perimeter insulated stud wall  
D - Drywall  
E - DRlcore® panel  
F - Concrete Floor

FIGURE 3 - Section - Unfinished Walls



A - Concrete foundation wall  
B - 1" air space  
C - Existing perimeter insulated stud wall  
D - Drywall  
E - ¼" x ¾" concrete fastener through base-plate (1 for every 4ft.)  
F - DRlcore® panel  
G - Concrete Floor

## FINISHED FLOOR OPTIONS

*NOTE: If panels are to remain unfinished for a period of 2 weeks or longer it is recommended to seal DRlcore® panels with two coats of polyurethane to protect from moisture.*

**ENGINEERED HARDWOOD:** Follow the wood manufacturer's guidelines as to what can be installed at or above grade and below grade. Before installing glue-down or nail-down floors a ½" plywood underlayment should be fastened to DRlcore® using 18 gauge ¾" or 7/8" narrow crown staples. When installing nail-down floors test a piece of the finished floor to make sure the fastener does not puncture the plastic membrane. Remove the ¼" wall spacers after the wood flooring has been installed. *NOTE: Do not glue engineered hardwood floors directly to DRlcore® panels.*

**CARPET:** To prevent panel uplift when stretching carpet, fasten DRlcore® panels to the concrete floor with flat head ¼" x 2 ¼" or 2 ¾" concrete fasteners every other panel at perimeter edges and one in the panel in the centre of the room. Use a ⅜" x 4 ½" drill bit to bore the holes. Install tack strips on top of the DRlcore® panels around the perimeter of the room, to hold the carpet down. Install pad and carpet. Do not glue the underpad or carpet directly to the DRlcore® panels.

**LAMINATE:** Install the floor manufacturer's foam pad and finished flooring on top of the DRlcore® panels. The installation of a continuous vapour barrier on top of DRlcore® is permitted as long as it is not sealed to the perimeter wall. Only remove the ¼" wall spacers after the laminate floor has been installed.

**TILE:** Fasten each DRlcore® panel with five, flat head and countersunk, concrete fasteners to the concrete floor to prevent movement or shifting of the finished ceramic tile floor. We recommend one in each of the four corners and one in the centre of the panel. Use flat head ¼" x 2 ¼" or 2 ¾" concrete fasteners and a ⅜" x 4 ½" drill bit to bore the holes. Next install an approved tile underlayment over DRlcore® making sure you follow their installation guidelines for installing over a wood subfloor. *NOTE: DRlcore® must lay perfectly stable. A sound recommendation would be to have one person walk the floor. Step heavy or bounce, with another looking for vertical movement of panels. If there is noticeable movement, mark the areas in question with an X and insert another concrete fastener.*

**VINYL SHEETS AND VINYL TILES:** A ¼" plywood underlayment approved for use with sheet vinyl or adhesive-backed vinyl tiles should be fastened to the DRlcore® panels. We do not recommend lauan plywood as an underlayment. Use ¾" flooring fasteners that do not penetrate the moisture barrier on the underside of the DRlcore® panels. Do not glue the plywood underlayment to DRlcore® panels. Do not glue adhesive-backed vinyl tiles directly to DRlcore® panels. Glue the vinyl floor to the plywood underlayment according to the vinyl manufacturer's installation instructions. Only remove the ¼" wall spacers after the vinyl floor has been installed.